PROFESSIONAL · THERMAL

SPC-THP05-T256-A3-G1

5 MP Thermal Camera

5MP Dual-Spectrum Thermal IP Camera with 256×192 VOx, 3.2mm Thermal Lens, 3.6mm 5MP Optical Lens, Bi-Spectrum Image Fusion, NETD < 50 mK, Temperature Measurement, Fire Detection, AI Video, 30m IR, Audio & Alarm I/O, MicroSD.

5 MP · Visible 3.6mm Thermal 3.2mm · 30 fps · Not



5 MP	1/2.7" Progressive CMOS	Visible 3.6 mm Thermal 3.2 mm	H.265 / H.264 / MJPEG	ONVIF Profile S/G/T, RTSP	IP66
Resolution	Image Sensor	Lens	Compression	ONVIF	Protection

EDGE AI ANALYTICS

PROTECTION
Reduce nuisance alarms

- Human & vehicle classification [P]
- Perimeter intrusion [P]
- Line crossing [P]
- Stationary object [P]

OPERATIONAL INTELLIGENCE
Turn video into insight

- Thermal imaging
- People / cross counting [P]
- Heat map [P]
- Crowd density [P]
- Queue length [P]

IDENTIFICATION
Find what matters faster

- Face detection [P]
- Face recognition [P]
- License plate recognition [P]

Analytics availability and simultaneous execution may vary by model, firmware and deployment architecture.

WHERE IT WORKS BEST

Perimeter detection in difficult visibility	Critical infrastructure	Remote sites	Fire Detection	Critical Infrastructure	Industrial Safety	Outdoor Perimeter

OPEN INTEGRATION

Camera and edge-intelligence layer. Recorder retention, Eye365 Smart Search, LPR365 workflows and MERGE365 integrations are selected as separate system roles.

ONVIF Profile S/G/T, RTSP

PROFESSIONAL TECHNICAL PRODUCT DATA

SPC-THP05-T256-A3-G1

5 MP Thermal Camera

Former model reference: SS-RTH05 SDF



1. CAMERA & IMAGING

Image sensor	1/2.7" Progressive CMOS
Effective pixels	5 MP
Minimum illumination	Color: 0.003 Lux @ F1.6, AGC ON / B&W: 0 Lux @ IR ON
Day / Night	IR Cut Filter – Auto / Day / Night / Schedule
Backlight compensation	Off/On (5 Zone)
Wide dynamic range	DWDR
Digital noise reduction	3D DNR
Privacy masking	Off/On (4 Zone, Rectangle)
Electronic shutter	1/5 ~ 1/100000s
Warm-light range	Up to 20m
Warning light	N/A
AI / function profile	Full AI profile

2. LENS

Lens type	Fixed
Focal length	Visible 3.6 mm Thermal 3.2 mm
Aperture	F1.1
Field of view	56°x42°
Min. object distance	1.2m

4. STORAGE, AUDIO & ALARM

On-board storage	Micro SD, up to 256GB
Alarm I/O	1 Input / 1 Output
Audio I/O	1 Input / 1 Output
Hardware reset	Yes
Event recording	NVR and SD Card
Interfaces	1 × RJ45 (10/100Mbps), PoE

3. AI ANALYTICS

- Human & vehicle classification [P]
- Perimeter intrusion [P]
- Line crossing [P]
- Stationary object [P]
- Thermal imaging
- People / cross counting [P]
- Heat map [P]
- Crowd density [P]
- Queue length [P]
- Searchable AI metadata [P]
- Face detection [P]
- Face recognition [P]
- License plate recognition [P]

Functions depend on the verified AI package and firmware of the selected camera.

5. VIDEO & NETWORK

Ethernet	PoE Ethernet
Compression	H.265 / H.264 / MJPEG
Main stream	5MP – 2592 × 1944
Sub stream	720P (1280×720), VGA (640×480), QVGA (320×240) @30fps
Mobile stream	VGA (640x480), QVGA (320x240) @ 30fps
Bit rate	N/A
Bitrate control	CBR/VBR
Streaming	Unicast / Multicast
Protocols	"TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP, SMTP,NTP,UPnP,SNMP,HTTPS,FTP"
Interoperability	ONVIF Profile S/G/T, RTSP

6. ELECTRICAL & ENVIRONMENTAL

Input power	D12V/POE(IEEE802.3af)
Power - IR off	3.5-4.5W
Power - IR on	5.5W-7.5W
Operating conditions	-30~+60°C/less than ≤ 90% RH
Ingress protection	IP66
Material	Metal
Dimensions	—
Weight	—

ORDERING INFORMATION

SKU	SPC-THP001	**Model**	SPC-THP05-T256-A3-G1

Description	5 MP Thermal Camera	Specifications are subject to change without notice.